

CALIBRATION SCHEME FOR LOGARITHMIC IMAGE SENSOR

Abstract of the Disclosure

A logarithmic pixel is formed by a photodiode connected to a semiconductor device that is operating based upon a sub-threshold. A logarithmic output is taken from an output node connected to the pixel via an amplifier. To calibrate the pixel, the photodiode is isolated by a switch and a ramp voltage is applied as reference voltage to the amplifier. The ramp voltage acts across the constant internal capacitance of the pixel to produce in-pixel a constant current for calibration purposes.